

Write your name here	
Surname	Other names
Edexcel Principal Learning	Centre Number
	Candidate Number
Manufacturing and Product Design	
Level 1	
Unit 1: Introduction to Manufacturing	
Thursday 14 January 2010 – Morning Time: 45 minutes	Paper Reference MP101/01
You do not need any other materials.	Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
– *there may be more space than you need.*

Information

- The total mark for this paper is 30.
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

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Turn over ►

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ALL questions must be answered with a cross in a box ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.

1 Which **one** of the following is an example of a company supporting the community?

A	Redundancies to local workers	<input type="checkbox"/>
B	Closure of a local factory outlet	<input type="checkbox"/>
C	Sponsorship of local sports team	<input type="checkbox"/>
D	Reducing wages of local workers	<input type="checkbox"/>

(Total for Question 1 = 1 mark)

2 Which **one** of the following is a main business process?

A	Cleaning the factory	<input type="checkbox"/>
B	Maintaining equipment	<input type="checkbox"/>
C	Catering for workers	<input type="checkbox"/>
D	IT disposal	<input type="checkbox"/>

(Total for Question 2 = 1 mark)

3 Engine assembly is part of which **one** of the following manufacturing business processes?

A	Producing products	<input type="checkbox"/>
B	Sales	<input type="checkbox"/>
C	Distributing products	<input type="checkbox"/>
D	Marketing	<input type="checkbox"/>

(Total for Question 3 = 1 mark)

4 Workers' wages are paid by which business process?

A	Ordering	<input type="checkbox"/>
B	Storage	<input type="checkbox"/>
C	Accounts	<input type="checkbox"/>
D	Maintenance	<input type="checkbox"/>

(Total for Question 4 = 1 mark)



5 Which **one** of the following is an example of reinvestment?

A	Reduced wages	<input type="checkbox"/>
B	Reduced output	<input type="checkbox"/>
C	Selling stock	<input type="checkbox"/>
D	Buying new machinery	<input type="checkbox"/>

(Total for Question 5 = 1 mark)

6 Which manufacturing business process buys raw materials?

A	Storage	<input type="checkbox"/>
B	Maintenance	<input type="checkbox"/>
C	Ordering	<input type="checkbox"/>
D	Distribution	<input type="checkbox"/>

(Total for Question 6 = 1 mark)

7 Which of the following activities is **most** likely to result in long term employment?

A	Wealth creation	<input type="checkbox"/>
B	Factory closure	<input type="checkbox"/>
C	Purchase of stock	<input type="checkbox"/>
D	Downsizing	<input type="checkbox"/>

(Total for Question 7 = 1 mark)

8 Which **one** of the following is a social issue for a manufacturing company?

A	Wasting energy	<input type="checkbox"/>
B	Local labour skills shortage	<input type="checkbox"/>
C	Cost of raw materials	<input type="checkbox"/>
D	Use of recycling bins in office	<input type="checkbox"/>

(Total for Question 8 = 1 mark)



9 A manufacturer wishes to find a cheaper way of getting its products to market.

Which issue is the company dealing with?

A	Social	<input type="checkbox"/>
B	Environmental	<input type="checkbox"/>
C	Maintenance	<input type="checkbox"/>
D	Economic	<input type="checkbox"/>

(Total for Question 9 = 1 mark)

10 An environmental issue for a manufacturing company would be?

A	Labour costs	<input type="checkbox"/>
B	Energy usage	<input type="checkbox"/>
C	Competitor pricing	<input type="checkbox"/>
D	Demographics	<input type="checkbox"/>

(Total for Question 10 = 1 mark)

11 The UK has an aging population and a manufacturer is finding it difficult to recruit apprentices. This is an example of:

A	a demographic issue	<input type="checkbox"/>
B	an environmental issue	<input type="checkbox"/>
C	a political issue	<input type="checkbox"/>
D	a transport issue	<input type="checkbox"/>

(Total for Question 11 = 1 mark)

12 Which manufacturing sub sector would be responsible for producing an aluminium car roof rack?

A	Printing	<input type="checkbox"/>
B	Engineering	<input type="checkbox"/>
C	Pharmaceuticals	<input type="checkbox"/>
D	Clothing	<input type="checkbox"/>

(Total for Question 12 = 1 mark)



13 Which product belongs to the food and drink sub sector?

A	Olive oil	<input type="checkbox"/>
B	Bicycle	<input type="checkbox"/>
C	Magazines	<input type="checkbox"/>
D	Aluminium cans	<input type="checkbox"/>

(Total for Question 13 = 1 mark)

14 Which manufacturing sub sector makes plastic garden furniture?

A	Food and drink	<input type="checkbox"/>
B	Textiles	<input type="checkbox"/>
C	Processing and print	<input type="checkbox"/>
D	Chemicals, polymers and pharmaceuticals	<input type="checkbox"/>

(Total for Question 14 = 1 mark)

15 Which manufacturing sub sector produces intelligent fabrics?

A	Engineering	<input type="checkbox"/>
B	Chemicals, polymers and pharmaceuticals	<input type="checkbox"/>
C	Food and drink	<input type="checkbox"/>
D	Textiles	<input type="checkbox"/>

(Total for Question 15 = 1 mark)

16 Which product is made by the processing and print manufacturing sub sector?

A	Soft drinks	<input type="checkbox"/>
B	Flat pack furniture	<input type="checkbox"/>
C	Wallpaper	<input type="checkbox"/>
D	Car battery	<input type="checkbox"/>

(Total for Question 16 = 1 mark)



17 Chocolate is made by which manufacturing sub sector?

A	Engineering	<input type="checkbox"/>
B	Food and drink	<input type="checkbox"/>
C	Processing and print	<input type="checkbox"/>
D	Chemicals, polymers and pharmaceuticals	<input type="checkbox"/>

(Total for Question 17 = 1 mark)

18 If the production cost of a product doubles, the selling price will:

A	decrease	<input type="checkbox"/>
B	increase	<input type="checkbox"/>
C	halve	<input type="checkbox"/>
D	stay the same	<input type="checkbox"/>

(Total for Question 18 = 1 mark)

19 A UK company has decided to move its factory to Asia.

What is the **most** likely reason for doing this?

A	To reduce distribution costs	<input type="checkbox"/>
B	To reduce its labour costs	<input type="checkbox"/>
C	To decrease its market	<input type="checkbox"/>
D	To help third world countries	<input type="checkbox"/>

(Total for Question 19 = 1 mark)

20 A European dairy produces milk and sells it in the UK at 20% less than a UK dairy.
In order to compete a UK dairy should:

A	increase the selling price by 20%	<input type="checkbox"/>
B	double the selling price	<input type="checkbox"/>
C	increase the selling price by 40%	<input type="checkbox"/>
D	reduce the selling price by 20%	<input type="checkbox"/>

(Total for Question 20 = 1 mark)



21 The cost of raw materials is reduced for a manufacturer.

This will result in:

A	reduced sales	<input type="checkbox"/>
B	larger profit	<input type="checkbox"/>
C	improved quality	<input type="checkbox"/>
D	increased selling price	<input type="checkbox"/>

(Total for Question 21 = 1 mark)

22 A shoe manufacturer gives its employees a 3% wage rise. The company wishes to keep its profit margins the same.

What action should the company take to keep the profit margins the same?

A	A small increase in the selling price	<input type="checkbox"/>
B	Make no change to the selling price	<input type="checkbox"/>
C	Increase VAT on the selling price	<input type="checkbox"/>
D	A small decrease in the selling price	<input type="checkbox"/>

(Total for Question 22 = 1 mark)

23 An electrical manufacturer increases the selling price of its hairdryers, making the product more expensive than its competitors.

What will be the effect?

A	Relocate the factory	<input type="checkbox"/>
B	Increased numbers of hairdryers sold	<input type="checkbox"/>
C	Open a second factory	<input type="checkbox"/>
D	Reduced number of hairdryers sold	<input type="checkbox"/>

(Total for Question 23 = 1 mark)



24 Replacing the drill bit on a drilling machine is an example of which cost?

A	Tooling	<input type="checkbox"/>
B	Packaging	<input type="checkbox"/>
C	Labour	<input type="checkbox"/>
D	Distribution	<input type="checkbox"/>

(Total for Question 24 = 1 mark)

25 Which **one** of the following would affect raw material cost when manufacturing bread?

A	Installing new ovens	<input type="checkbox"/>
B	Shortage of flour	<input type="checkbox"/>
C	Using more yeast	<input type="checkbox"/>
D	Increased business rates	<input type="checkbox"/>

(Total for Question 25 = 1 mark)

26 A furniture manufacturer needs to transport chairs to a retailer.

This is an example of which **one** of the following?

A	Tooling	<input type="checkbox"/>
B	Distribution	<input type="checkbox"/>
C	Labour	<input type="checkbox"/>
D	Raw materials	<input type="checkbox"/>

(Total for Question 26 = 1 mark)

27 Which **one** of the following is an example of an overhead cost for a burger manufacturer?

A	Bread crumbs	<input type="checkbox"/>
B	Lighting	<input type="checkbox"/>
C	Minced beef	<input type="checkbox"/>
D	Packaging	<input type="checkbox"/>

(Total for Question 27 = 1 mark)



28 Which **one** of the following is an example of a direct cost for a clothing manufacturer?

A	Textiles	<input type="checkbox"/>
B	Insurance	<input type="checkbox"/>
C	Management	<input type="checkbox"/>
D	Heating	<input type="checkbox"/>

(Total for Question 28 = 1 mark)

29 Footballs are sold for £5.00

The production costs are:

£1.00 for materials

£1.00 for labour

£0.80 for overheads.

What is the **profit** on each football sold?

A	£2.50	<input type="checkbox"/>
B	£1.50	<input type="checkbox"/>
C	£2.80	<input type="checkbox"/>
D	£2.20	<input type="checkbox"/>

(Total for Question 29 = 1 mark)

30 To make 1 metre of carpet costs:

£1.55 for materials

£0.40 for labour

£0.25 for overheads.

What is the total cost to manufacture **5 metres** of carpet?

A	£2.20	<input type="checkbox"/>
B	£22.00	<input type="checkbox"/>
C	£11.00	<input type="checkbox"/>
D	£1.10	<input type="checkbox"/>

(Total for Question 30 = 1 mark)

TOTAL FOR PAPER = 30 MARKS



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